



**PITOTLESS
NOZZLE™**
USER GUIDE
Grooved

Item#: PN2GRV, PN1.75GRV, PN1.125GRV, PN1GRV

OVERVIEW

Use the Pitotless Nozzle™ to measure the water flow-rate while conducting fire pump tests or fire flow tests on hydrants. The Pitotless Nozzle Grooved is designed for use with the Little Hose Monster™ (HML) or for discharging into open atmosphere.

COMPONENTS

The gauge connection on the Pitotless Nozzle is a factory-installed quick-disconnect male plug. Do not remove this fitting from the Pitotless Nozzle body. One female counterpart is included and additional ones can be purchased separately. Attach the female quick-disconnect coupling directly to the gauge or remote reader adapter and use the quick disconnect feature to easily attach and remove the gauge. We recommend a gauge with an accuracy rating of $\frac{1}{2}\%$ or better and either 0-60 psi or 0-100 psi.



SETUP

Using the Pitotless Nozzle with the Little Hose Monster™

Line up the Pitotless Nozzle outlet at the inlet of the Little Hose Monster with the gauge port rotated to 45° off either side of vertical. Push the Nozzle all the way in until the latch lever arms hook into the groove. Rotate the Nozzle until the latch levers snap parallel to the body and the gauge port is in the desired position. The gauge port can be rotated so that a gauge can be viewed in a vertical position, or horizontal to the left or right side of the Little Hose Monster. Insert the locking pins all the way through the pinhole and latch-lever arm. When the Pitotless Nozzle is installed, securely attach a hose using a spanner wrench. Make sure the hose lays flat and is not twisted.



Using the Pitotless Nozzle on a Hydrant Nozzle or Test Header Valve (Open Atmosphere)

Secure the female swivel coupling of the Pitotless Nozzle to a Nozzle Extension (Item#:NE2HNN11WF) connected directly to the hydrant nozzle or test header valve. A Nozzle Extension is recommended because it eliminates the possibility of the gauge pulling a suction caused by water turbulence at the valve. The Pitotless Nozzle outlet points in the direction the water will flow. Clear water discharge path for safety of people and property.



Open Atmosphere

FLOW CHARTS

Pitotless Nozzle flow charts must be used to determine discharge flow rate. The use of flow charts of a different device or size will result in incorrect readings. Within the flow chart is a column for “Little Hose Monster” and for “Open Atmosphere”. Use the “Little Hose Monster” flows if the outlet end of the Pitotless Nozzle is attached to a Little Hose Monster. Use the “Open Atmosphere” flows if the Pitotless Nozzle is attached directly on a hydrant or test header valve discharging out into the open. Flow charts are provided with the Pitotless Nozzle and additional copies are available on our website at www.HoseMonster.com/literature.html

Maintenance

- Wipe down the product with a damp cloth after each use to remove dirt and debris. To reduce corrosion on brass, aluminum, or steel fittings apply WD-40 or Gibbs Brand Lubricant, then wipe with a cloth.
- Replace damaged or worn gaskets.

SAFETY AND HANDLING



DO NOT ATTACH THE PITOTLESS NOZZLE TO THE END OF A HOSE UNLESS THE HOSE MONSTER IS ATTACHED TO IT OR UNLESS IT IS PERMANENTLY SECURED.

DO NOT FLOW WATER UNLESS THE LATCH-LEVERS ARE PARALLEL TO THE LITTLE HOSE MONSTER BODY AND BOTH LOCKING PINS ARE FULLY INSERTED. FAILURE TO INSTALL THE NOZZLE CORRECTLY CAN RESULT IN THE LITTLE HOSE MONSTER SEPARATING FROM THE NOZZLE UNDER EXTREME FLOW CONDITIONS.

ALL CONNECTIONS IN THIS ASSEMBLY MUST BE ATTACHED SECURELY. DIRECT WATER DISCHARGE AWAY FROM ANY PEOPLE OR PROPERTY THAT MAY BE AFFECTED. THE USE OF THIS PRODUCT INVOLVES HEAVY WATER FLOW WHICH CAN RESULT IN SERIOUS INJURY OR DEATH IF USED IMPROPERLY. THE MANUFACTURER AND ITS DISTRIBUTORS ARE NOT RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED BY THE USE OF THIS PRODUCT. PRODUCTS THAT HAVE BEEN ALTERED OR MODIFIED IN ANY WAY POSE A SAFETY RISK AND WILL VOID THE MANUFACTURER’S WARRANTY.



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